

LAND APPLICATION SITE
CHARLOTTE HAILE FRISCHKORN
EXCHF 1-4
ESSEX COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 2-7-2016 between CHARLOTTE FRISCHKORN referred to here as "Landowner", and Recyc Systems, Inc.; referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in TAPPAHANNOCK Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

| <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> |
|----------------------|----------------------|----------------------|----------------------|
| <u>42-39</u> | | | |
| | | | |
| | | | |
| | | | |

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

| | | | |
|---|---|---|---|
| <u>Class B biosolids</u> | <u>Water treatment residuals</u> | <u>Food processing waste</u> | <u>Other industrial sludges</u> |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Charlotte Frischkorn
Landowner - Printed Name, Title

Signature

4 John Christopher Ctr
Richmond, Va. 23226
Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Strunk
Permittee - Authorized Representative
Printed Name

Signature

Recyc Systems Inc.
PO Box 562 Remington, Virginia 22734
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: ESSEX
 Landowner: CHARLOTTE FRISCHKORN

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Charlotte Frischkorn 2-7-2016
 Landowner's Signature Date

John R Hail 2-1-16
 Farm Operator Signature Mailing Address & Phone Number
FSN 2258 Tract 745

FARM DATA SHEET

| | | | |
|---------------------------|--|------------------------------|--|
| SITE NAME: | Charlotte Haile Frischkorn | COUNTY: | Essex |
| OWNER: | Charlotte Haile Frischkorn | OPERATOR: | John R. Haile |
| OWNER'S ADDRESS: | 4 John Christopher Ct. Richmond, VA 23226 | OPERATOR'S ADDRESS: | 460 Latanes Mill Rd. Tappahannock, VA 22560 |
| OWNER'S TELEPHONE: | - | OPERATOR'S TELEPHONE: | 804-443-2418 |
| GENERAL FARM TYPE: | Hay/ Pasture | CELL PHONE: | 804-514-4820 |
| # CATTLE: | 25 | EMAIL: | - |
| LAGOON or SLURRY: | N/A | LATITUDE: | 37.841 |
| TOPO QUAD: | Millers Tavern | LONGITUDE: | 76.977 |
| COMMENTS: | | | |
| | | | |
| | | | |
| | | | |
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SD
8-29-18

RECYC SYSTEMS, INC

FIELD DATA SHEET

| Field Identification | Gross Acres | DEQ Control ID | Environmentally Sensitive Soils | | | | Hydro Map | Tax Map # | FSA Tract # |
|-------------------------|----------------|-------------------|---------------------------------|----------------------|------------|------------|--------------|--------------|-----------------|
| | | | Water Table | Bed Rock/ Shallow | Surf/Leach | Freq Flood | | | |
| EXCHF 1 | 12.7 | 51057-00318-0000 | - | - | - | - | RA 61 | 42-34 | T 745 F 1 |
| EXCHF 2 | 15.1 | 51057-00318-0000 | - | - | - | - | RA 61 | 42-34 | T 745 F 5 |
| EXCHF 3 | 12.9 | 51057-00318-0000 | 20D Nov.-Apr. | - | - | - | RA 61 | 42-34 | T 745 F 2, 3 |
| EXCHF 4 | 7.8 | 51057-00318-0000 | - | - | - | - | RA 61 | 42-34 | T 745 F 4 |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL ACRES IN SITE | 48.5 | | | | | | | | |

8-29-18

[illegible]

Report Number: 17-153-0547

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: Recyc Systems Inc
Susan Trumbo
8455 Whiteshop Road
Culpepper VA 22701

"Every acre...Every year."™

Grower: Charlott Frischkorn
Essex Co

SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 06/02/2017

Date Of Analysis: 06/05/2017

Date Of Report: 06/05/2017

| Sample ID Field ID | Lab Number | OM | W/V | ENR | Phosphorus | | | Potassium | Magnesium | Calcium | Sodium | pH | | Acidity | C.E.C |
|-----------------------|---------------|-----------|---------------|-------|----------------|----------|----------|---------------|----------------|----------------|----------------|------------|-----------------|---------------|----------|
| | | % Rate | Soil Class | lbs/A | M3 ppm Rate | ppm Rate | ppm Rate | K ppm Rate | Mg ppm Rate | Ca ppm Rate | Na ppm Rate | Soil pH | Buffer Index | H meq/100g | meq/100g |
| 2 | 02873 | 2.3 L | | 89 | 272 VH | | | 52 VL | 73 M | 786 H | | 6.4 | 6.88 | 0.5 | 5.2 |
| 4 | 02874 | 2.3 L | | 91 | 169 VH | | | 30 VL | 46 M | 589 H | | 6.3 | 6.89 | 0.4 | 3.8 |

| Sample ID Field ID | Percent Base Saturation | | | | | Nitrate | Sulfur | Zinc | Manganese | Iron | Copper | Boron | Soluble Salts | | |
|-----------------------|-------------------------|---------|---------|---------|--------|-------------------------------|---------------|----------------|----------------|----------------|----------------|---------------|------------------|--|--|
| | K % | Mg % | Ca % | Na % | H % | NO ₃ N ppm Rate | S ppm Rate | Zn ppm Rate | Mn ppm Rate | Fe ppm Rate | Cu ppm Rate | B ppm Rate | SS ms/cm Rate | | |
| 2 | 2.6 | 11.7 | 75.6 | | 9.6 | | | 11.5 VH | 26 H | | | | | | |
| 4 | 2.0 | 10.1 | 77.5 | | 10.5 | | | 7.1 H | 17 M | | | | | | |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 17-153-0547

Account Number: 70594



"Every acre...Every year."™

7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: Recyc Systems Inc
Susan Trumbo
8455 Whiteshop Road
Culpeper VA 22701

Grower: Charlott Frischkorn
Essex Co

Date Received: 06/02/2017

Date Of Report: 06/05/2017

SOIL FERTILITY RECOMMENDATIONS

| Sample ID Field ID | Intended Crop | Yield Goal | Lime Tons/A | Nitrogen N lb/A | Phosphate P ₂ O ₅ lb/A | Potash K ₂ O lb/A | Magnesium Mg lb/A | Sulfur S lb/A | Zinc Zn lb/A | Manganese Mn lb/A | Iron Fe lb/A | Copper Cu lb/A | Boron B lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 2 | Adjust pH to 6.5 | 0 | 0.8 | | | | 0 | | | 0 | | | |
| 4 | Adjust pH to 6.5 | 0 | 0.8 | | | | 14 | | | 2 | | | |

Comments:

Sample(s) : 4 Crop: Adjust pH to 6.5

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGroary

Virginia Cooperative Extension

Soil Test Report

Contact:
County Office
Box 849
Tappahannock, VA 22560
443-3551

Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
185 Ag Quad Ln
Blacksburg, VA 24061
www.soiltest.vt.edu

SEE NOTES:

1 3

at www.soiltest.vt.edu under Report Notes

HAILE JOHN R.
460 LATANES MILL RD

C F
O O
P R
V

TAPPAHANNOCK, VA 22560

A/30 2258 425
#1

SAMPLE HISTORY

| Sample ID | Field ID | LAST CROP | | LAST LIME APPLICATION | | SOIL INFORMATION | | | | |
|-----------|--------------------|-----------------|-------|-----------------------|-----------|------------------|---------|---------|----------------|--------------------|
| | | Name | Yield | Months Prev. | Tons/Acre | SMU-1 % | SMU-2 % | SMU-3 % | Yield Estimate | Productivity Group |
| RET20 | 2258 745 #1 p/s | TRH 11 CHF 1 | | 18+ | | 23B 100 | | | | III |

LAB TEST RESULTS (see Note 1)

| Analysis | P (lb/A) | K (lb/A) | Ca (lb/A) | Mg (lb/A) | Zn (ppm) | Mn (ppm) | Cu (ppm) | Fe (ppm) | B (ppm) | Salts (ppm) |
|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|-------------|
| Result | 248 | 165 | 1492 | 159 | 9.8 | 5.5 | 2.5 | 113.9 | 0.3 | |
| Rating | VH | M+ | H- | H- | SUFF | SUFF | SUFF | SUFF | SUFF | |

| Analysis | Soil pH | Buffer Index | Est.-CEC (meq/100g) | Acidity (%) | Base Sat. (%) | Ca Sat. (%) | Mg Sat. (%) | K Sat. (%) | Organic Matter (%) |
|----------|---------|--------------|---------------------|-------------|---------------|-------------|-------------|------------|--------------------|
| Result | 6.0 | 6.23 | 5.6 | 18.0 | 82.0 | 66.5 | 11.7 | 3.8 | |

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Orchardgrass/Fescue-Clover Pasture (40)

| Lime, TONS/AC | | Fertilizer, lb/A | | |
|---------------|------|------------------|------|-----|
| Amount | Type | N | P2O5 | K2O |
| 1.25 | AG | See | 0 | 30 |
| Comment | | | | |

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

122. P2O5 and K2O recommendations are for annual application. However, rates can be doubled and applied every other year if desired.

990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey.991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

Virginia Cooperative Extension

Soil Test Report

Contact:
County Office
Box 849
Tappahannock, VA 22560
443-3551

Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
185 Ag Quad Ln
Blacksburg, VA 24061
www.soiltest.vt.edu

SEE NOTES:

1 3

at www.soiltest.vt.edu under Report Notes

HAILE JOHN R.
460 LATANES MILL RD

C J
O O
P R
V

TAPPAHANNOCK, VA 22560

SAMPLE HISTORY

| Sample ID | Field ID | LAST CROP | | LAST LIME APPLICATION | | SOIL INFORMATION | | | | |
|-----------|----------------|---|-------|-----------------------|-----------|------------------|---------|---------|----------------|--------------------|
| | | Name | Yield | Months Prev. | Tons/Acre | SMU-1 % | SMU-2 % | SMU-3 % | Yield Estimate | Productivity Group |
| RET15 | 2258 745 #5 | Orchardgrass/Fescue-Clover Pasture (40%) | | 18+ | | 23B 100 | | | | III |

LAB TEST RESULTS (see Note 1)

| Analysis | P (lb/A) | K (lb/A) | Ca (lb/A) | Mg (lb/A) | Zn (ppm) | Mn (ppm) | Cu (ppm) | Fe (ppm) | B (ppm) | Salts (ppm) |
|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|-------------|
| Result | 276 | 121 | 1333 | 151 | 10.8 | 5.2 | 2.4 | 99.9 | 0.2 | |
| Rating | VH | M | M+ | H- | SUFF | SUFF | SUFF | SUFF | SUFF | |

| Analysis | Soil pH | Buffer Index | Est.-CEC (meq/100g) | Acidity (%) | Base Sat. (%) | Ca Sat. (%) | Mg Sat. (%) | K Sat. (%) | Organic Matter (%) |
|----------|---------|--------------|---------------------|-------------|---------------|-------------|-------------|------------|--------------------|
| Result | 6.0 | 6.25 | 5.0 | 17.8 | 82.2 | 66.6 | 12.5 | 3.1 | |

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Orchardgrass/Fescue-Clover Pasture (40)

| Lime, TONS/AC | | Fertilizer, lb/A | | |
|---------------|------|------------------|------|-----|
| Amount | Type | N | P2O5 | K2O |
| 1 | AG | See | 0 | 40 |
| Comment | | | | |

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

122. P2O5 and K2O recommendations are for annual application. However, rates can be doubled and applied every other year if desired.

990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey.991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

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www.soiltest.vt.edu

SEE NOTES:

1 3

at www.soiltest.vt.edu under Report Notes

HAILE JOHN R.
460 LATANES MILL RD

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P R
Y

TAPPAHANNOCK, VA 22560

SAMPLE HISTORY

| Sample ID | Field ID | LAST CROP | | LAST LIME APPLICATION | | SOIL INFORMATION | | | | |
|-----------|-------------------------------|--------------|-------|-----------------------|-----------|------------------|---------|---------|----------------|--------------------|
| | | Name | Yield | Months Prev. | Tons/Acre | SMU-1 % | SMU-2 % | SMU-3 % | Yield Estimate | Productivity Group |
| RET12 | 2258 745 #2+3 <i>minus</i> | <i>CHF 3</i> | | 18+ | | 23B 100 | | | | III |

LAB TEST RESULTS (see Note 1)

| Analysis | P (lb/A) | K (lb/A) | Ca (lb/A) | Mg (lb/A) | Zn (ppm) | Mn (ppm) | Cu (ppm) | Fe (ppm) | B (ppm) | Salts (ppm) |
|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|-------------|
| Result | 184 | 87 | 1128 | 124 | 7.1 | 3.9 | 1.8 | 74.4 | 0.2 | |
| Rating | VH | M- | M | M+ | SUFF | SUFF | SUFF | SUFF | SUFF | |

| Analysis | Soil pH | Buffer Index | Est.-CEC (meq/100g) | Acidity (%) | Base Sat. (%) | Ca Sat. (%) | Mg Sat. (%) | K Sat. (%) | Organic Matter (%) |
|----------|---------|--------------|---------------------|-------------|---------------|-------------|-------------|------------|--------------------|
| Result | 6.1 | 6.31 | 4.0 | 13.5 | 86.5 | 70.9 | 12.9 | 2.8 | |

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Orchardgrass/Fescue-Clover Pasture (40)

| Lime, TONS/AC | | Fertilizer, lb/A | | |
|---------------|------|------------------|------|-----|
| Amount | Type | N | P2O5 | K2O |
| .75 | AG | See | 0 | 50 |
| Comment | | | | |

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

122. P2O5 and K2O recommendations are for annual application. However, rates can be doubled and applied every other year if desired.

990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey.991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2016-Summer, 2018)
Charlotte Haile Frischkorn
Planner: Recyc Systems, Inc

Tract: 745

Location: Essex

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field CFSA No. /Name | Size (ac) Total/ Used | Yr. | Crop | Needs N-P-K (lbs/ac) | Leg /Man Resid | Manure/Biosld Rate & Type (season) | IT (d) | Man/Bios N-P-K (lbs/ac) | Net = Needs - appld N-P-K (lbs/ac) | Sum P rem cred | Commercial N-P-K (lbs/ac) | Notes | |
|----------------------------|--------------------------------|------|-------------------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 1/EXCHF 1(N) | 13/13 | 2016 | Fescue grass hay mt. | 70-50-95 | 0/0 | | | | 70-50-95 | N/A | | | |
| 5/EXCHF 2(N) | 15/15 | 2016 | Hay/Pasture | 100-50-95 | 0/0 | | | | 100-50-95 | N/A | | | |
| 2, 3/EXCHF 3(N) | 13/13 | 2016 | Hay/Pasture | 100-50-95 | 0/0 | | | | 100-50-95 | N/A | | | |
| 4/EXCHF 4(N) | 8/8 | 2016 | Fescue grass hay mt. | 70-50-95 | 0/0 | | | | 70-50-95 | N/A | | | |

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

| Tract | Field | Acre | Date | P2O5 | K2O | Lab | Soil pH | Lime Date | rec. lime tons/Ac |
|-------|---------|------|--------------|------|-----|-----|------------|--------------|----------------------|
| 745 | EXCHF 1 | 13 | [No Test] | | | | | | |
| 745 | EXCHF 2 | 15 | [No Test] | | | | | | |
| 745 | EXCHF 3 | 13 | [No Test] | | | | | | |
| 745 | EXCHF 4 | 8 | [No Test] | | | | | | |

Field Productivities for Major Crops

| Tract Name | Tract/ Field | Field Name | Acres | Predominant Soil Series | Corn | Small Grain | Alfalfa | Grass Hay | Environmental Warnings |
|------------|-----------------|------------|-------|----------------------------|------|----------------|---------------|--------------|------------------------|
| 745 | 745/1 | EXCHF 1 | 13 | Suffolk | IIIb | II | Not Suited | III | |
| | 745/5 | EXCHF 2 | 15 | Suffolk | IIIb | II | Not Suited | III | |
| | 745/2, 3 | EXCHF 3 | 13 | Suffolk | IIIb | II | Not Suited | III | |
| | 745/4 | EXCHF 4* | 8 | Suffolk | IVa | II | Not Suited | III | High Leaching |

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

Yield Range

| Field Productivity Group | Corn Grain Bu/Acre | Barley/Intensive Wheat Bu/Acre | Std. Wheat Bu/Acre | Alfalfa Tons/Acre | Grass/Hay Tons/Acre |
|--------------------------------|-----------------------|-----------------------------------|-----------------------|----------------------|------------------------|
| I | >170 | >80 | >64 | >6 | >4.0 |
| II | 150-170 | 70-80 | 56-64 | 4-6 | 3.5-4.0 |
| III | 130-150 | 60-70 | 48-56 | <4 | 3.0-3.5 |
| IV | 100-130 | 50-60 | 40-48 | NA | <3.0 |
| V | <100 | <50 | <40 | NA | NA |

Farm Summary Report

Plan: New Plan Spring, 2016 - Summer, 2018

Farm Name: Charlotte Haile Frischkorn

Location: Essex

Specialist: Recyc Systems, Inc

N-based Acres: 48.5

P-based Acres: 0.0

Tract Name: 745

FSA Number: 745

Location: Essex

Field Name: EXCHF 1

Total Acres: 12.70 Usable Acres: 12.70

FSA Number: 1

Tract: 745

Location: Essex

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

| DATE | PH | P | K | Lab |
|-----------|----|---|---|-----|
| [NO TEST] | | | | |

Soils:

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
|---------|--------|-------------|

100 23B Suffolk

Field Warnings:

Crop Rotation:

| PLANTED | YIELD | CROP NAME |
|---------|----------|--------------------------------------|
| 2016-Sp | 2.5 tons | Fescue grass (hay), maint. - No Till |

Field Name: **EXCHF 2**

Total Acres: 15.10 Usable Acres: 15.10

FSA Number: 5

Tract: 745

Location: Essex

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

| DATE | PH | P | K | Lab |
|------|-----------|---|---|-----|
| | [NO TEST] | | | |

Soils:

| PERCENT | SYMBOL | SOIL SERIES |
|---------|------------------|-------------|
| 100 | 23B Suffolk | |

Field Warnings:

Crop Rotation:

| PLANTED | YIELD | CROP NAME |
|---------|---------|-----------------------|
| 2016-Sp | 2.2 ton | Hay/Pasture - No Till |

Field Name: EXCHF 3

Total Acres: 12.90 Usable Acres: 12.90

FSA Number: 2, 3

Tract: 745

Location: Essex

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

| DATE | PH | P | K | Lab |
|------|-----------|---|---|-----|
| | [NO TEST] | | | |

Soils:

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|----------------|
| 2 | 20D | Rumford Slagle |
| 98 | 23B | Suffolk |

Field Warnings:**Crop Rotation:**

| PLANTED | YIELD | CROP NAME |
|---------|-----------|-----------------------|
| 2016-Sp | 2.2 * ton | Hay/Pasture - No Till |

Field Name: EXCHF 4

Total Acres: 7.80 Usable Acres: 7.80

FSA Number: 4

Tract: 745

Location: Essex

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

| DATE | PH | P | K | Lab |
|------|-----------|---|---|-----|
| | [NO TEST] | | | |

Soils:

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 44 | 18B | Rumford |
| 56 | 23B | Suffolk |

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Crop Rotation:

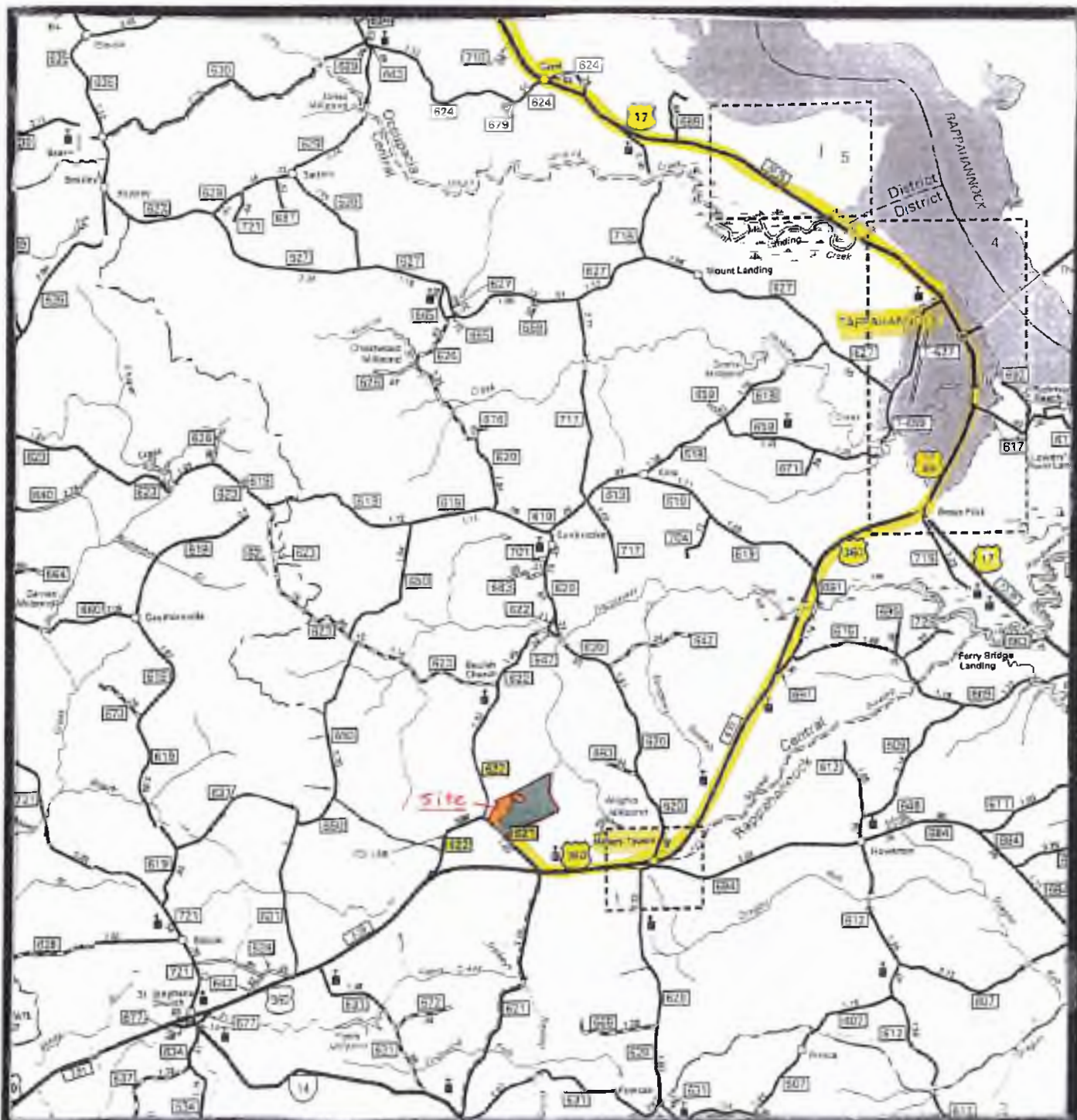
| PLANTED | YIELD | CROP NAME |
|---------|----------|--------------------------------------|
| 2016-Sp | 2.5 tons | Fescue grass (hay), maint. - No Till |

MAPS

Recyc SystemsTM

Inc.

(Biosolids Land Application)



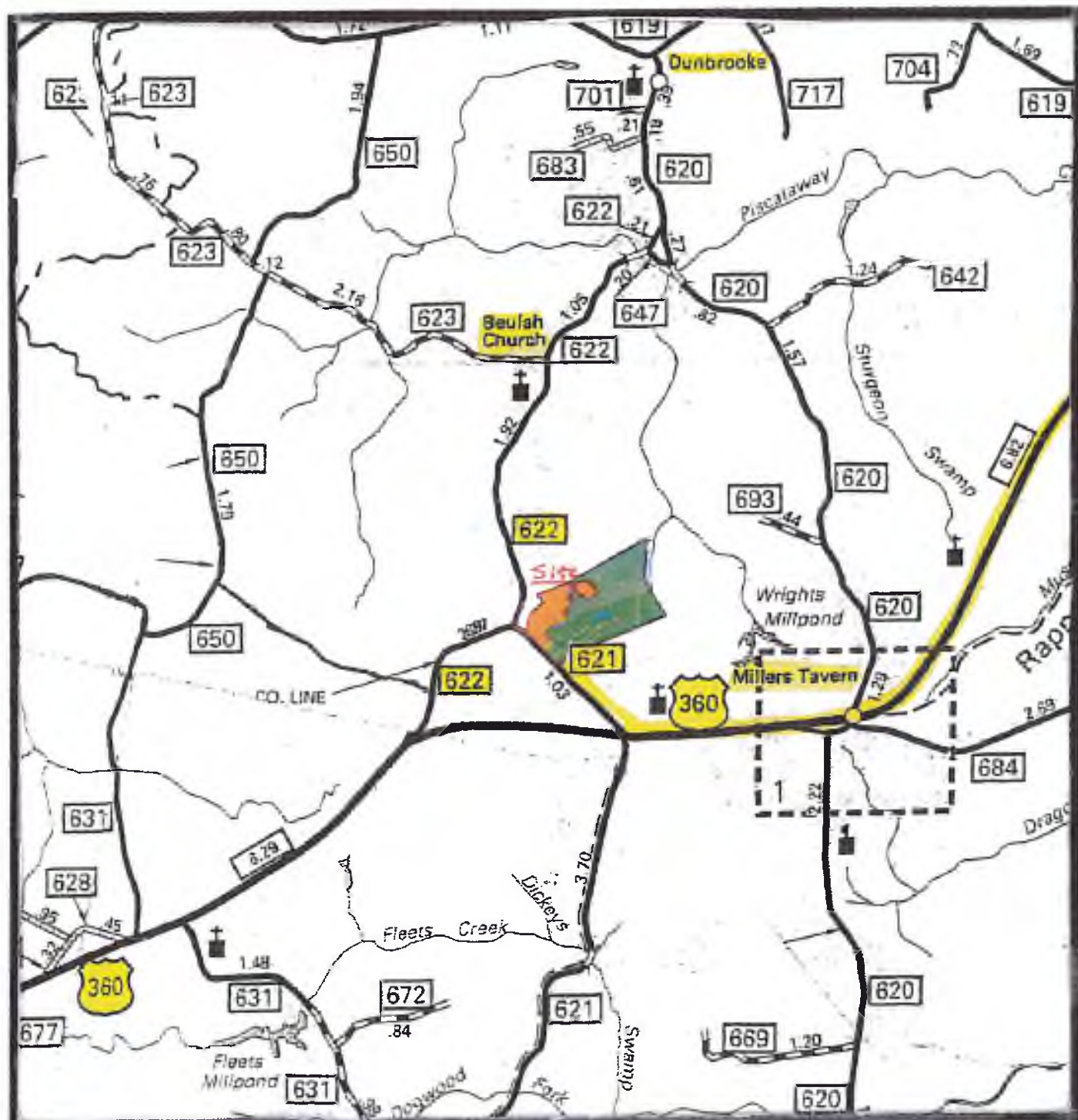
Scale: 1" = 2 miles

EXCHF 1-4

8-29-18

VICINITY MAP

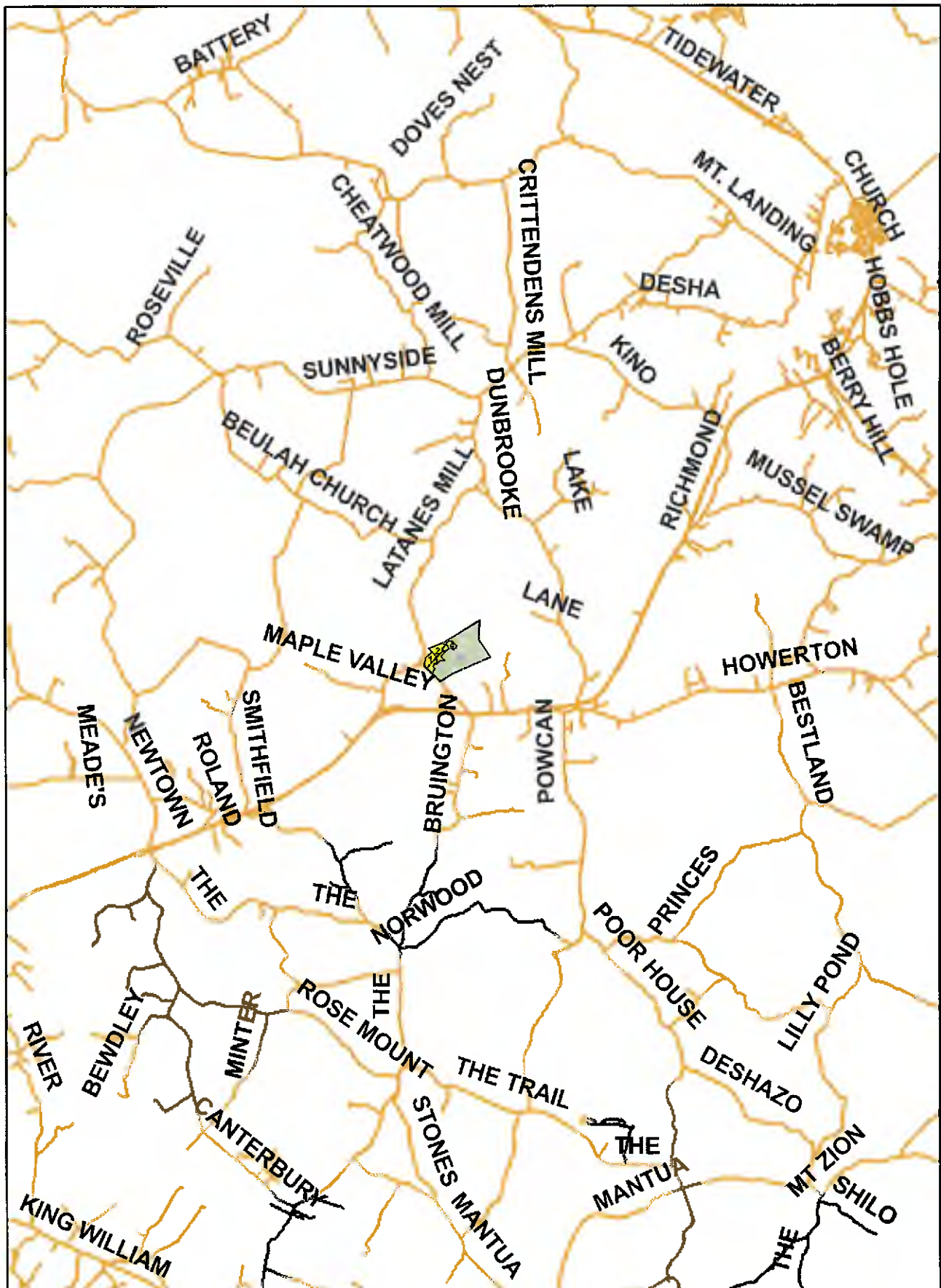


Inc. (Biosolids Land Application)

EXCHF 1-4

VICINITY MAP



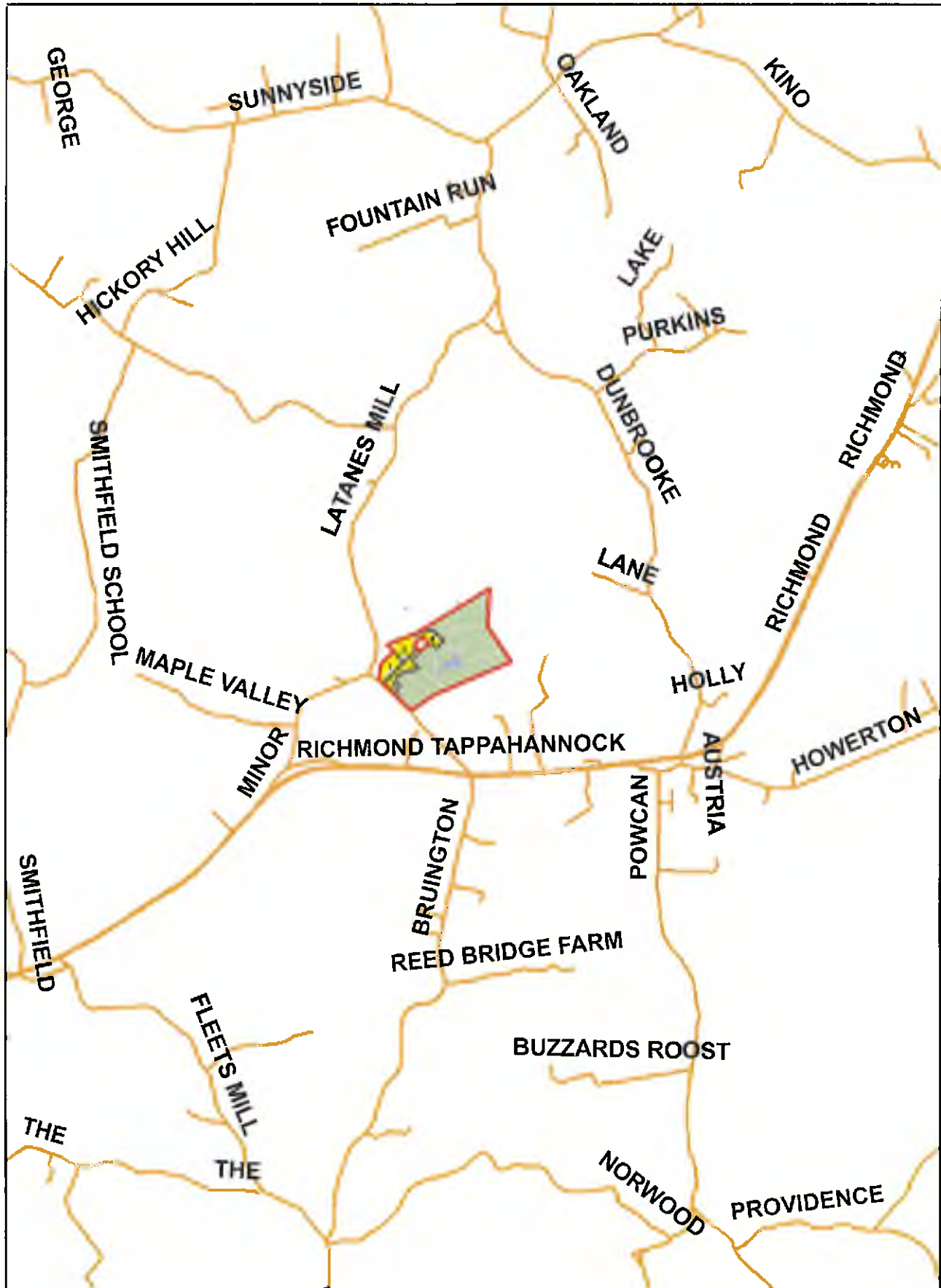


8-29-18

VICINITY MAP

1 in = 2 miles

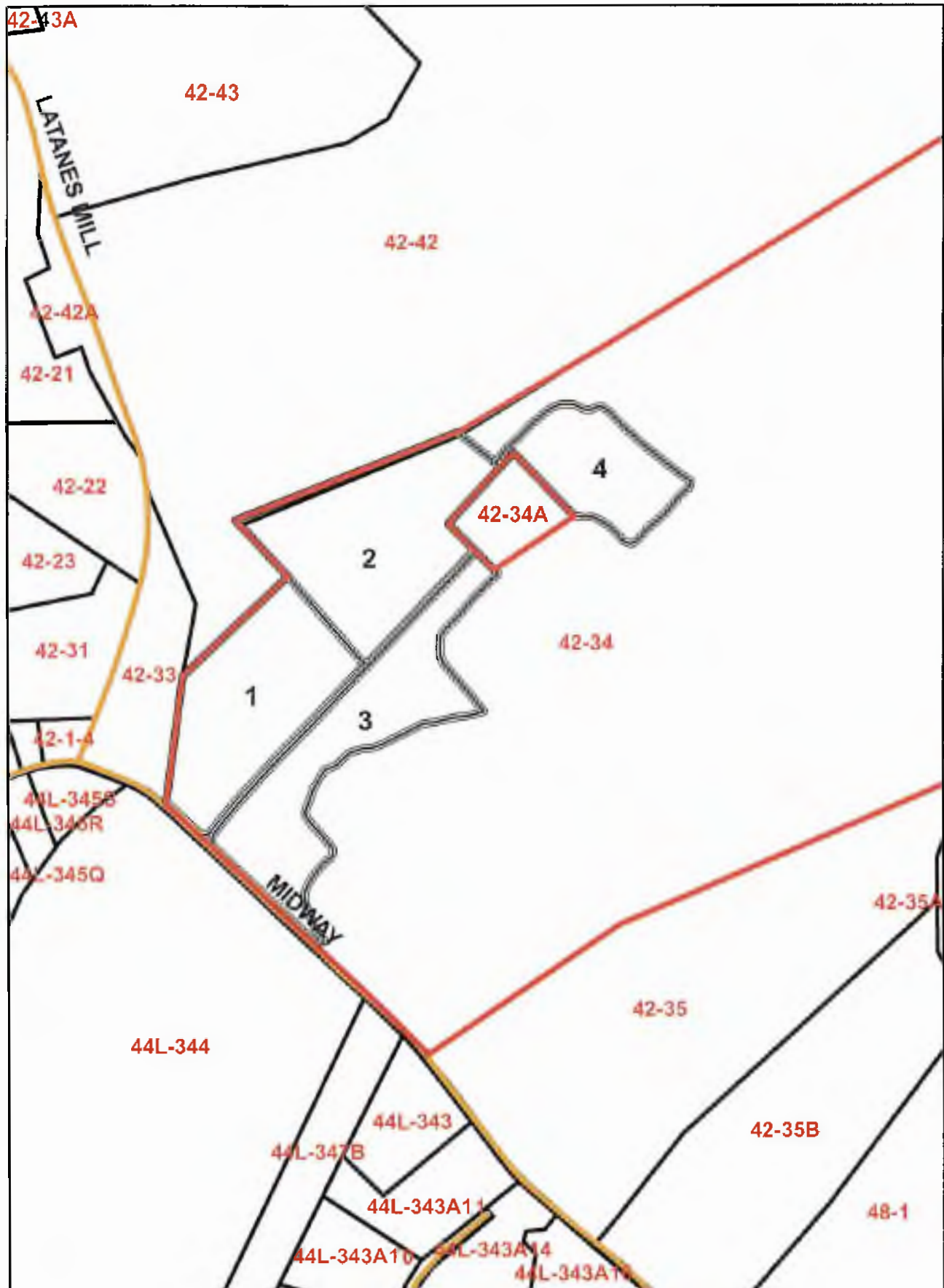




8-29-18

VICINITY MAP

1 in = 1 miles

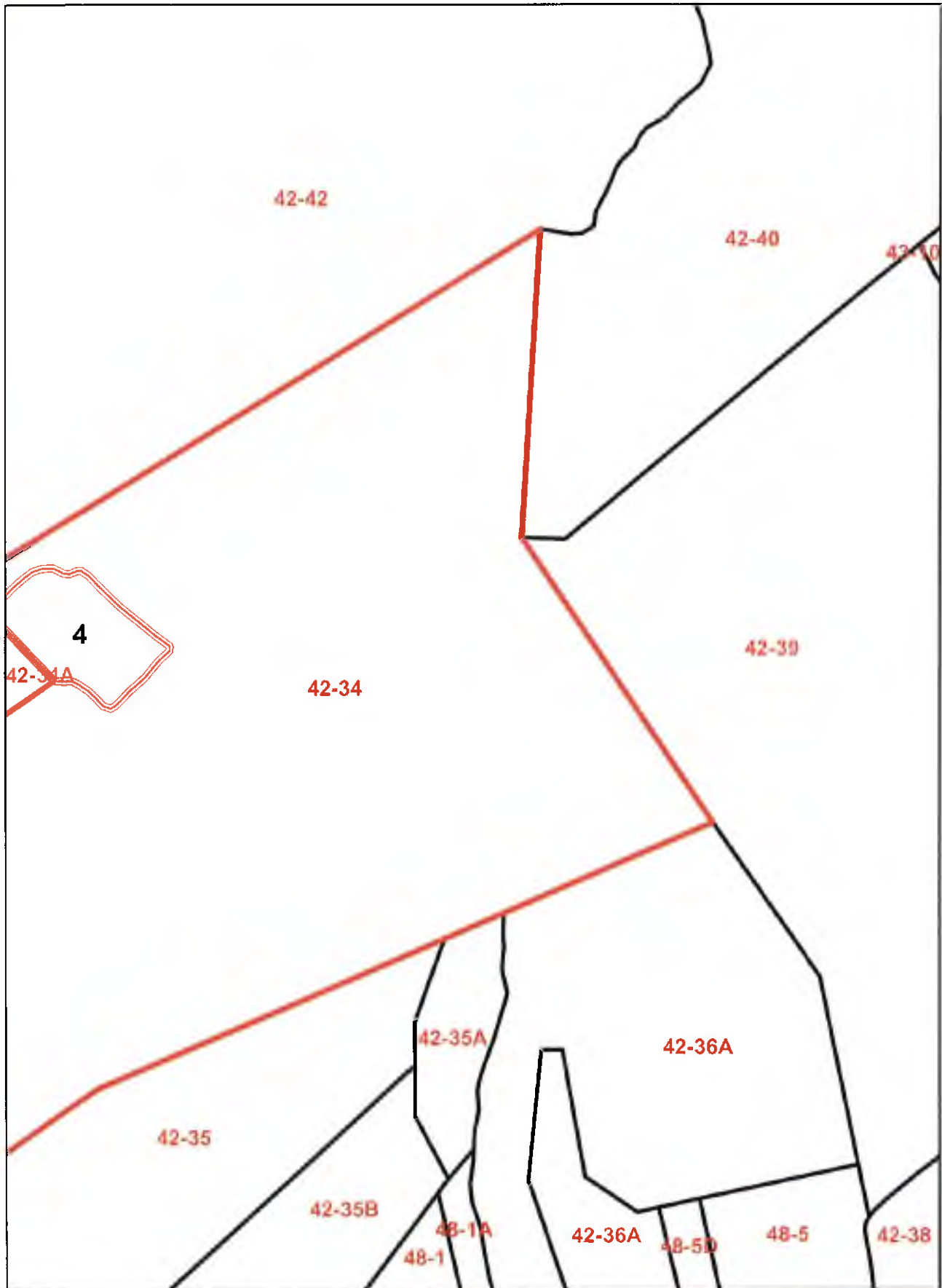


8-29-18

TAX MAP

1 in = 660 feet





8-29-18

TAX MAP

1 in = 660 feet



ADJOINING LANDOWNERS

Charlotte Haile Frischkorn

ESSEX COUNTY

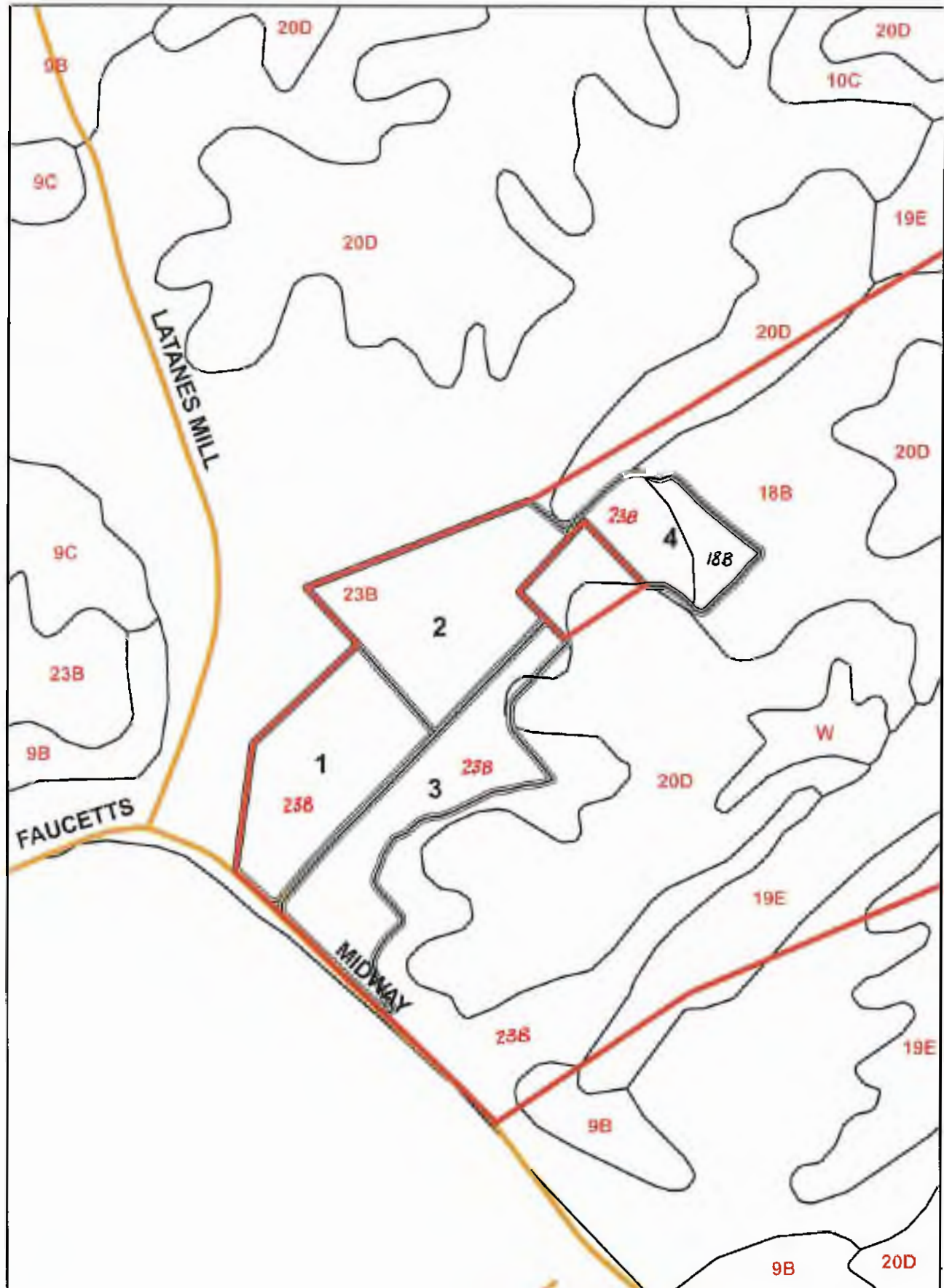
| Tax Map | Parcel # | Owner Name(s) |
|----------------|-----------------|---------------------------------------|
| 42 | 33 | John R. and Patricia R. Haile Trustee |
| | 34A | John F. Haile |
| | 35 | John R. and Patricia R. Haile Trustee |
| | 35A | John R. and Patricia R. Haile Trustee |
| | 36A | Timber Resources LLC |
| | 39 | John R. Kline II |
| | 40 | William E. Lane |
| | 42 | John R. and Patricia R. Haile Trustee |

ADJOINING LANDOWNERS

Charlotte Haile Frischkorn

KING AND QUEEN COUNTY

| Tax Map | Parcel # | Owner Name(s) |
|----------------|-----------------|----------------------------|
| 1625-44-L- | 343 | Midway Farm Properties LLC |
| | 343-1 | Midway Farm Properties LLC |
| | 344 | Lane Richmond Estate |
| | 345S | Elton Farm Business Trust |
| | 347B | Midway Farm Properties LLC |



8-29-18

SOIL MAP

1 in = 660 feet



Frequent
Flooding



8-29-18

AERIAL MAP

1 in = 660 feet



United States
Department of
Agriculture

Essex County, Virginia

Tract 745

Farm 2258



2015 Program Year

Map Created April 16, 2015

— RCL_Essex_KQ_KW

Common Land Unit

/// Non-Cropland

clu_classification_code

Cropland

Tract Boundary

**Wetland Determination
Identifiers**

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation
Compliance Provisions

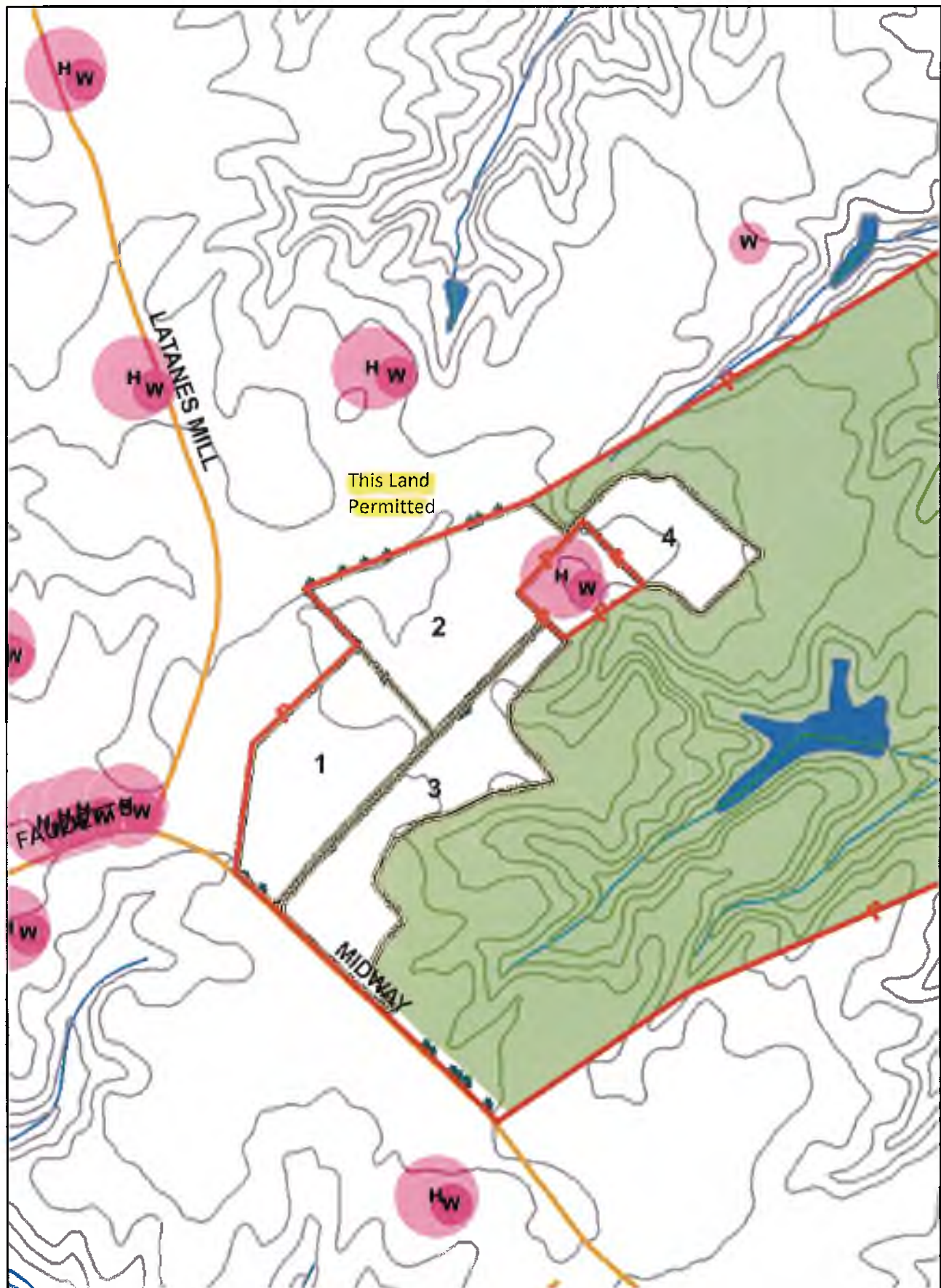
Tract Cropland Total: 48.52 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Legend For Site Plan

| Symbol | Feature | Minimum Setback |
|---|--------------------------|--|
|  | House and Well | 200 feet from occupied dwelling * 100 feet from water supply wells or springs |
|   | Well or Spring | 100 feet from water supply wells or springs |
|   | Streams or Surface Water | 35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer |
|  | Wet Spot | |
|  | Trees and Woods | |
|  | Private Drive | |
|  | Rock Area/Rock Outcrop | 25 feet from rock outcrops 50 feet from limestone rock outcrops |
|  | Severely Eroded Spot | 18 Inch minimum depth of soil |
|    | Sink Hole | 100 feet from open sinkholes 50 feet from closed sinkholes |
|  | State Road | 10 feet from side of roadway |
|  | Fence / Field Boundary | |
|  | Property Line | 100 feet from property line * |
|   | Slope | 15% maximum |
|  | Hashed out Area | No application |

*Buffer can be reduced or waived upon written consent from landowner.

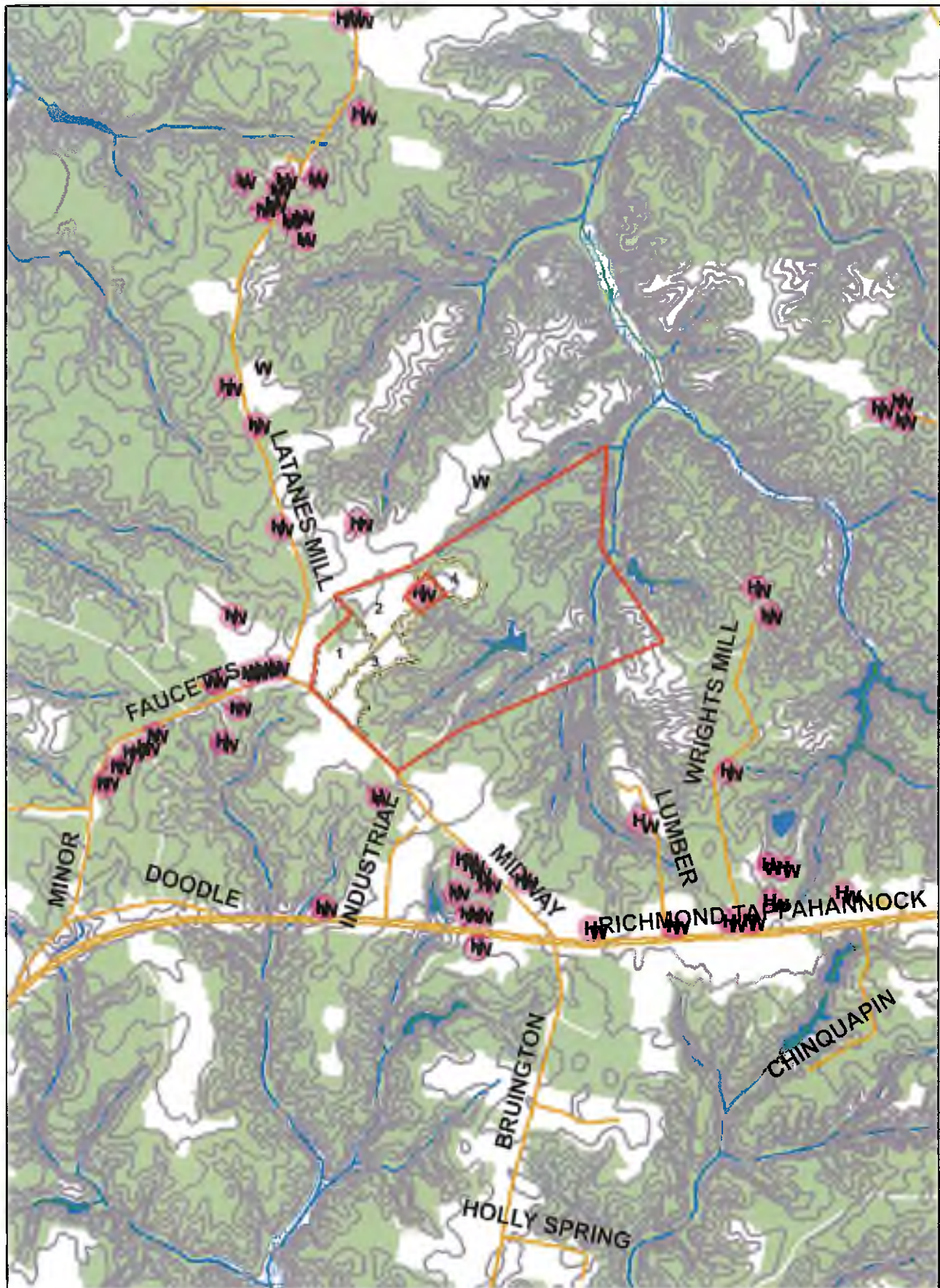


8-29-18

SITE PLAN

1 in = 660 feet





8-29-18

TOPOGRAPHIC MAP

1 in = 2,000 feet